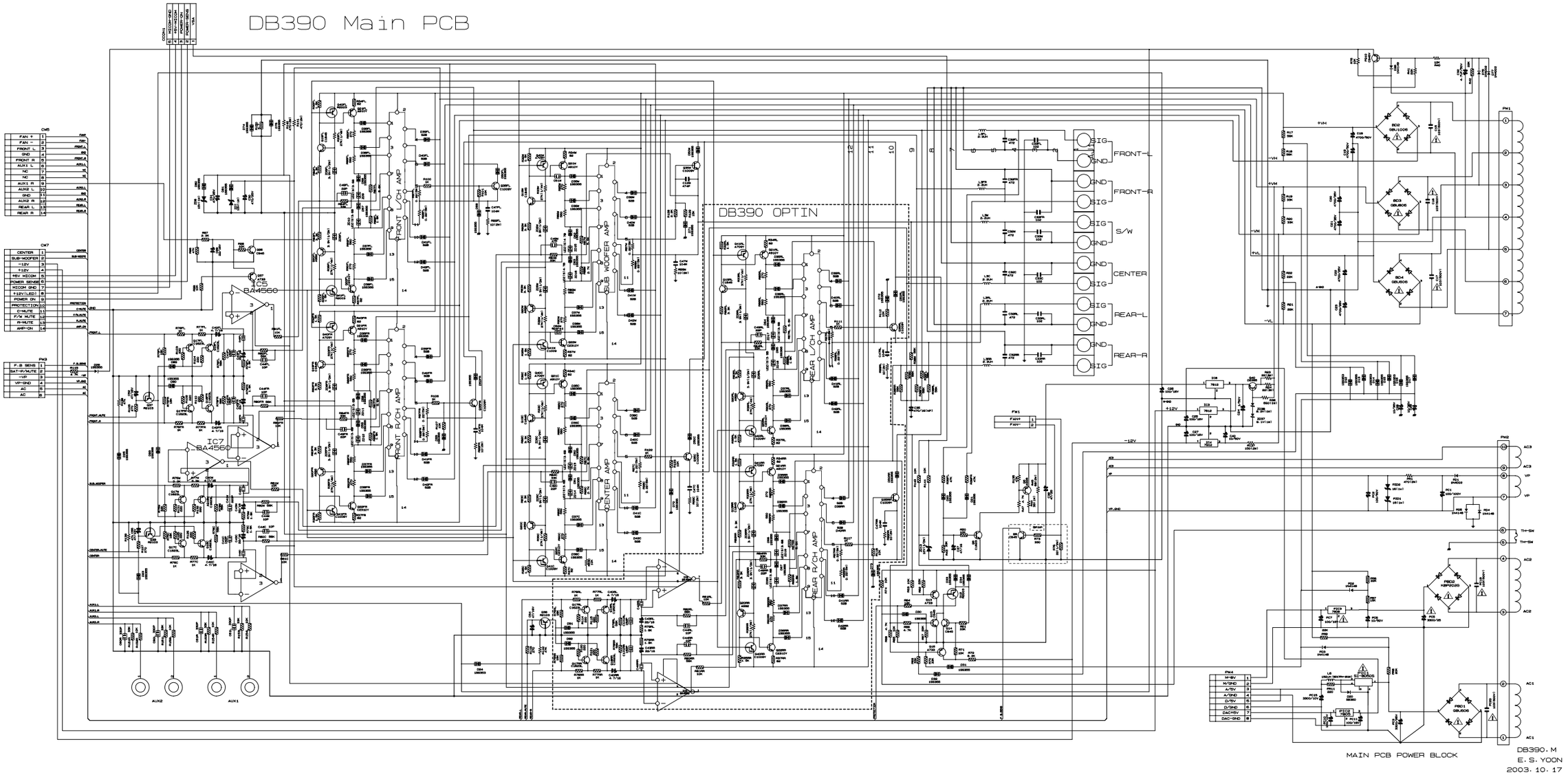
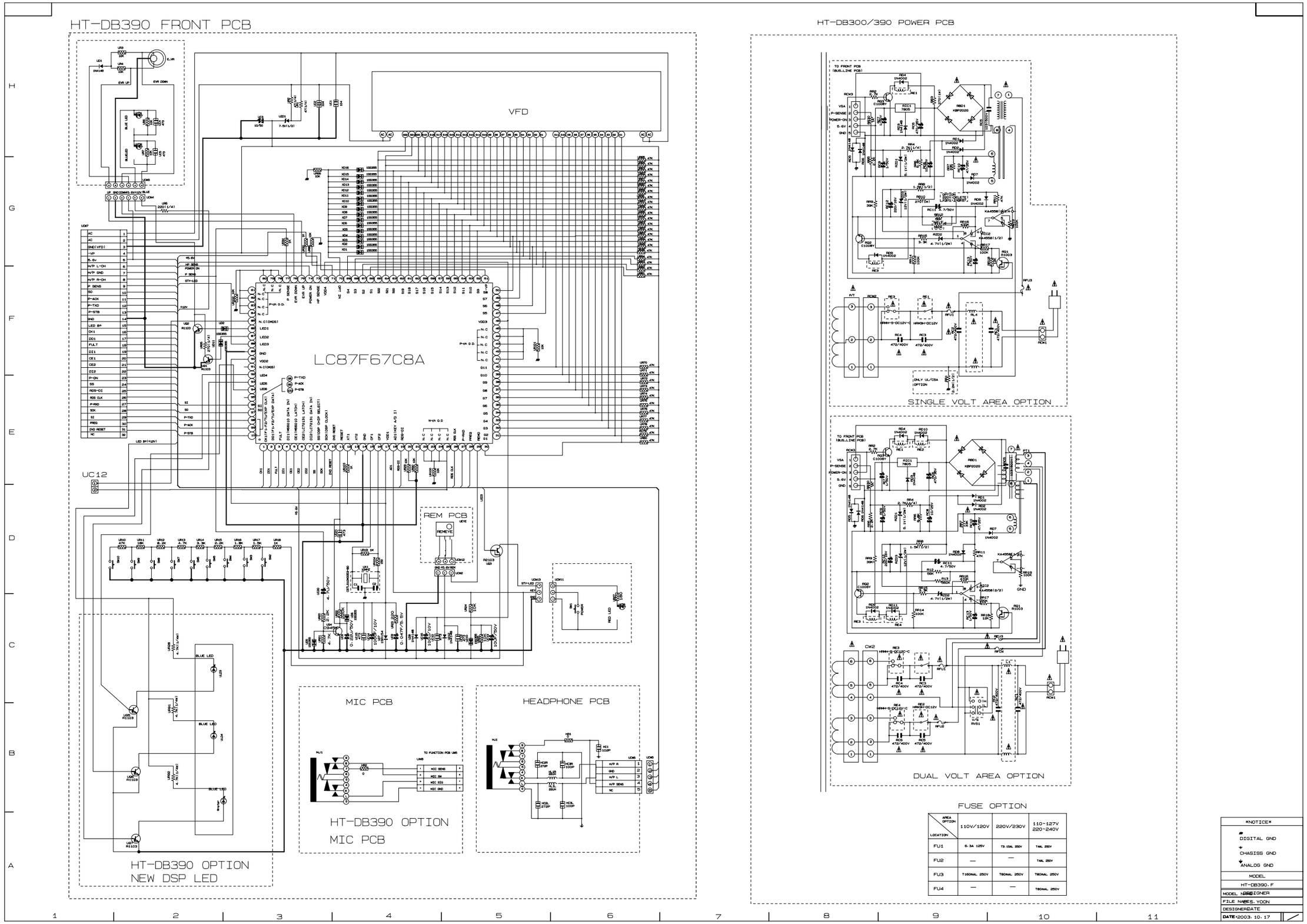
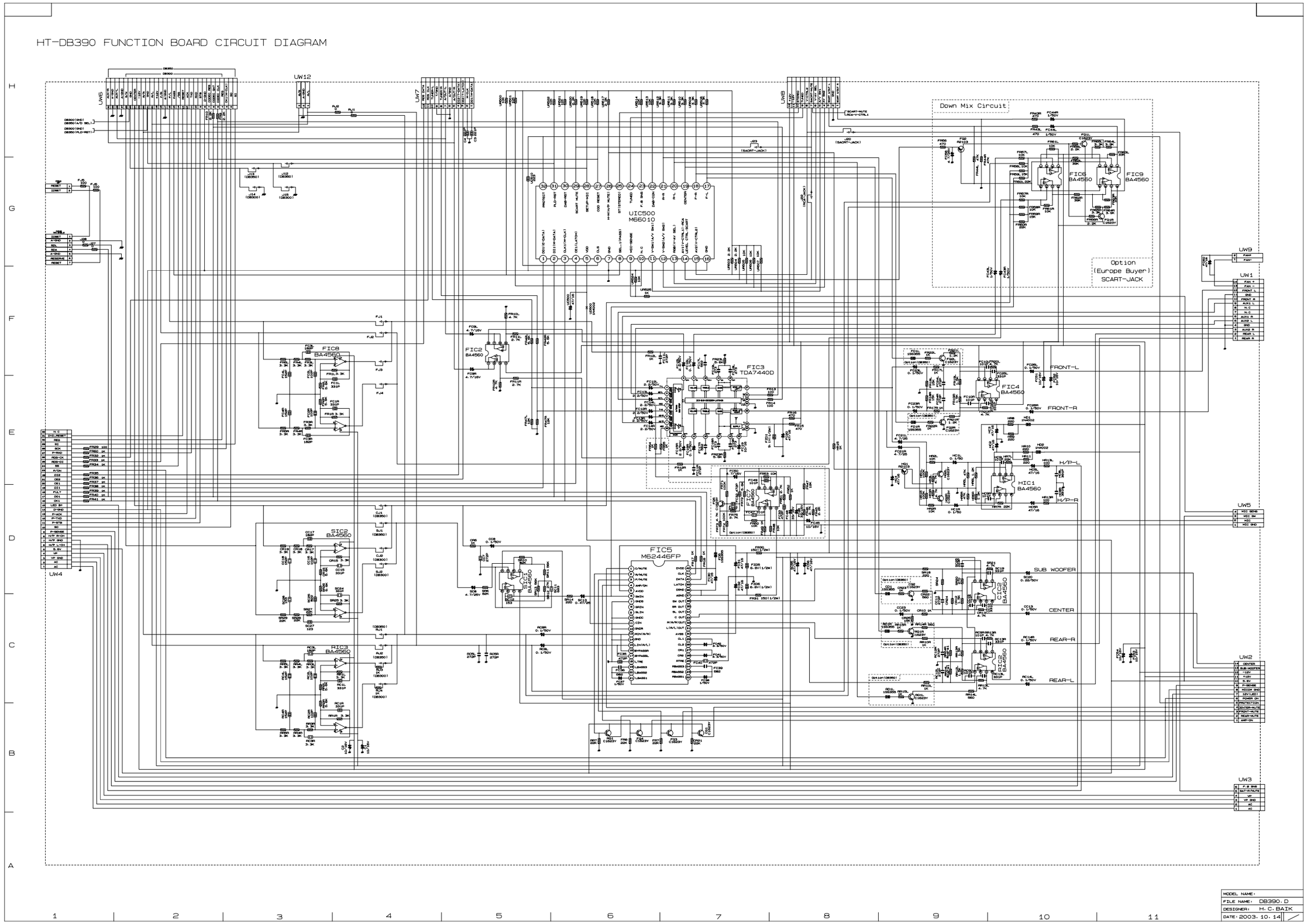
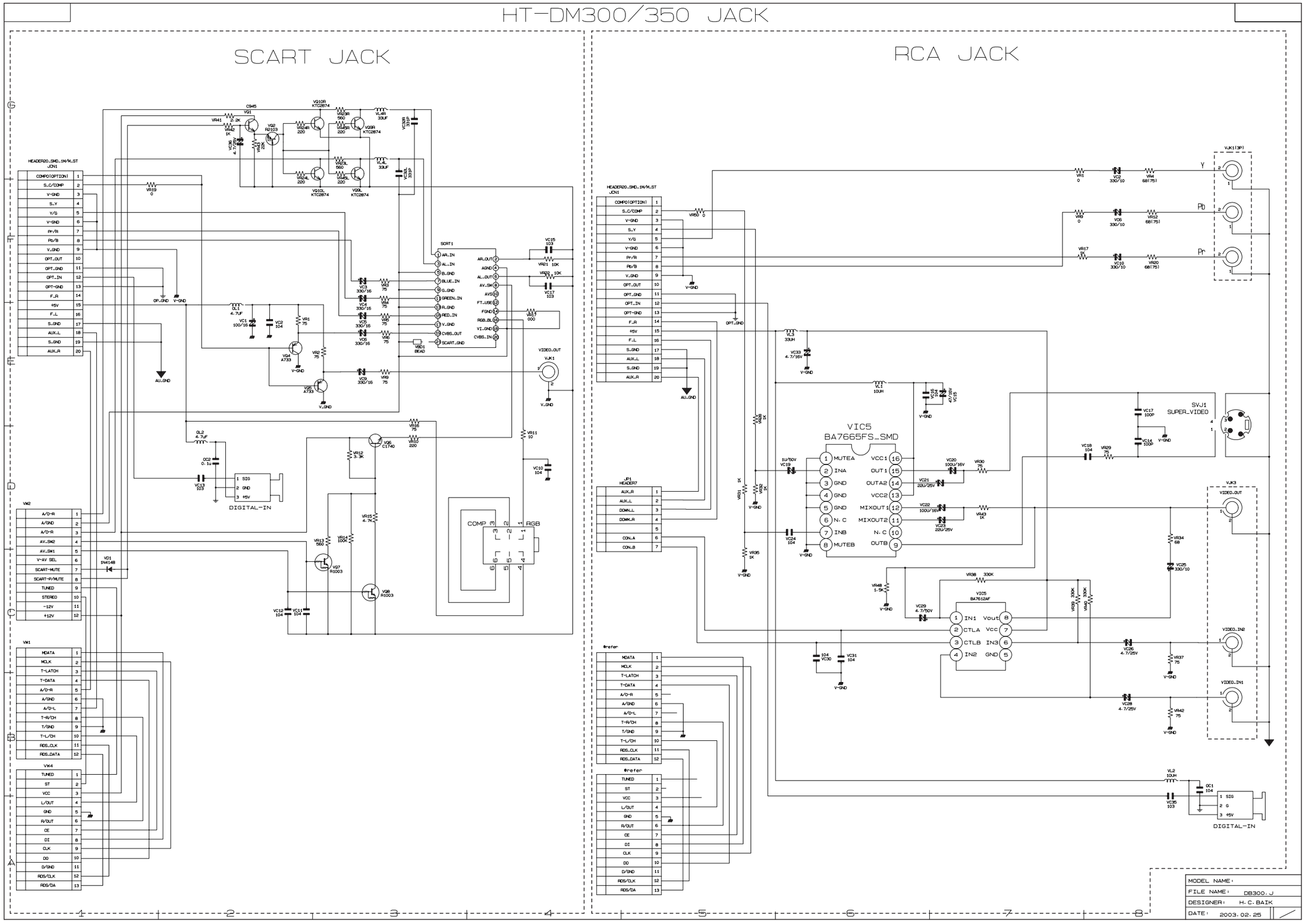
6-1 MAIN : HT-DB390

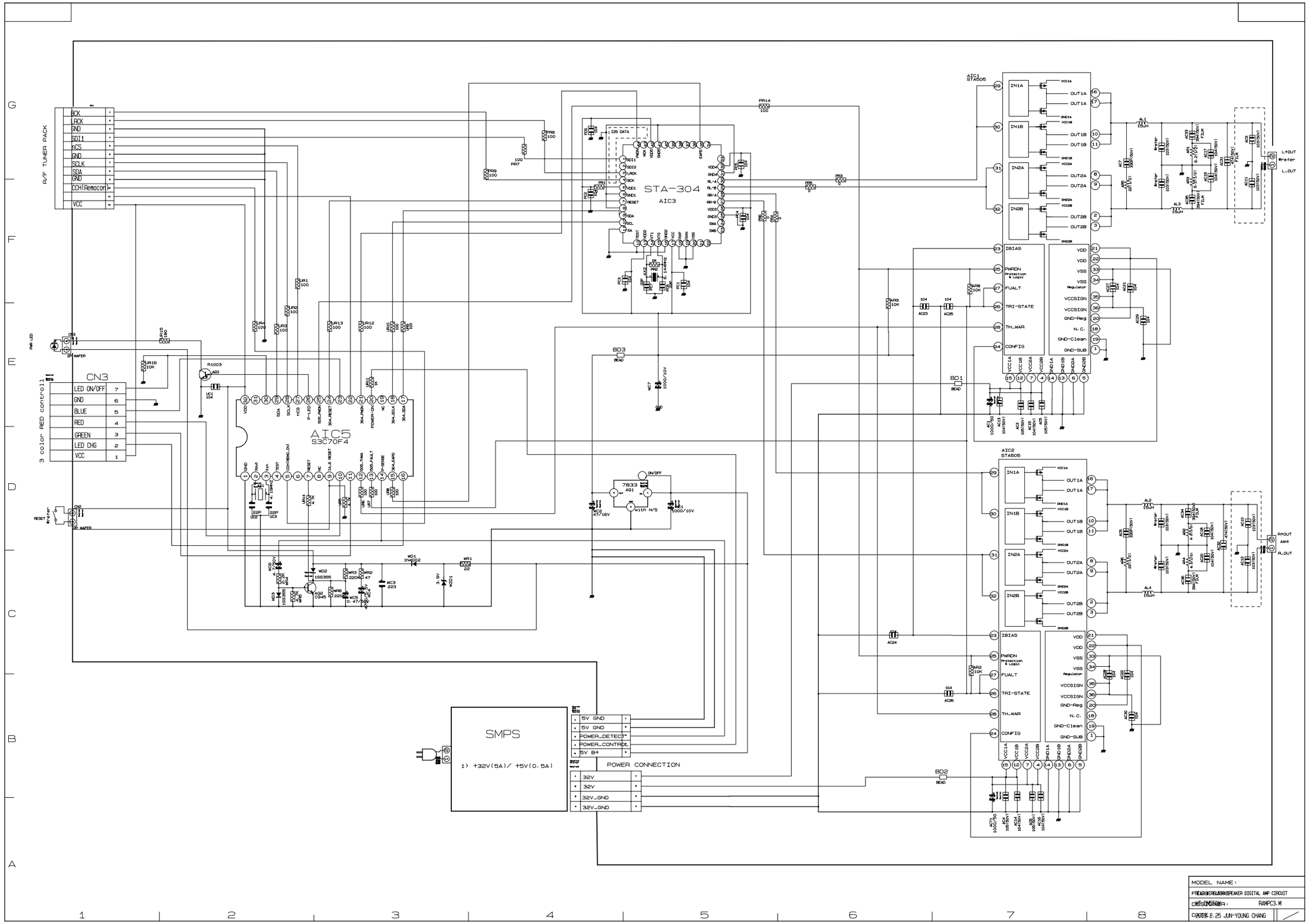


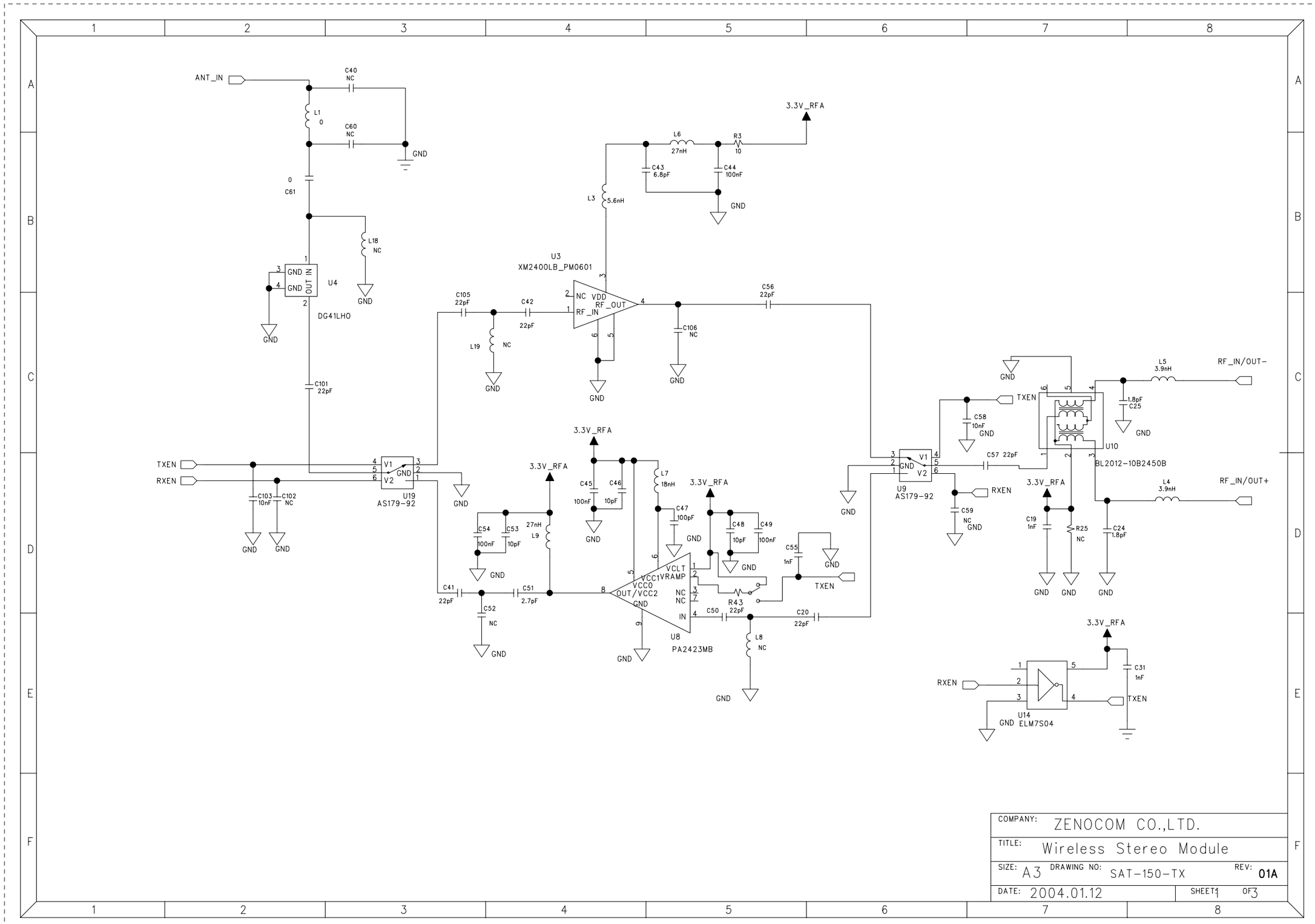

HT-DB390 FRONT PCB
VFD
LC87F67C8A
UC12
REM PCB
REMEYE
MIC PCB
HT-DB390 OPTION
MIC PCB
HEADPHONE PCB
HT-DB390 OPTION
NEW DSP LED
BLUE LED
RED LED
HT-DB300/390 POWER PCB
TO FRONT PCB
(BUS.LINE PCB)
SINGLE VOLT AREA OPTION
DUAL VOLT AREA OPTION
FUSE OPTION
AREA / OPTION
LOCATION
110V/120V
220V/230V
110-127V
220-240V
FU1
6.3A 125V
T3.15AL 250V
T4AL 250V
FU2
—
—
T4AL 250V
FU3
T160MAL 250V
T80MAL 250V
T80MAL 250V
FU4
—
—
T80MAL 250V
NOTICE
DIGITAL GND
CHASSIS GND
ANALOG GND
MODEL
HT-DB390.F
MODEL NAME
DESIGNER
FILE NAME
S.YOON
DESIGNER
DATE
DATE
2003. 10. 17

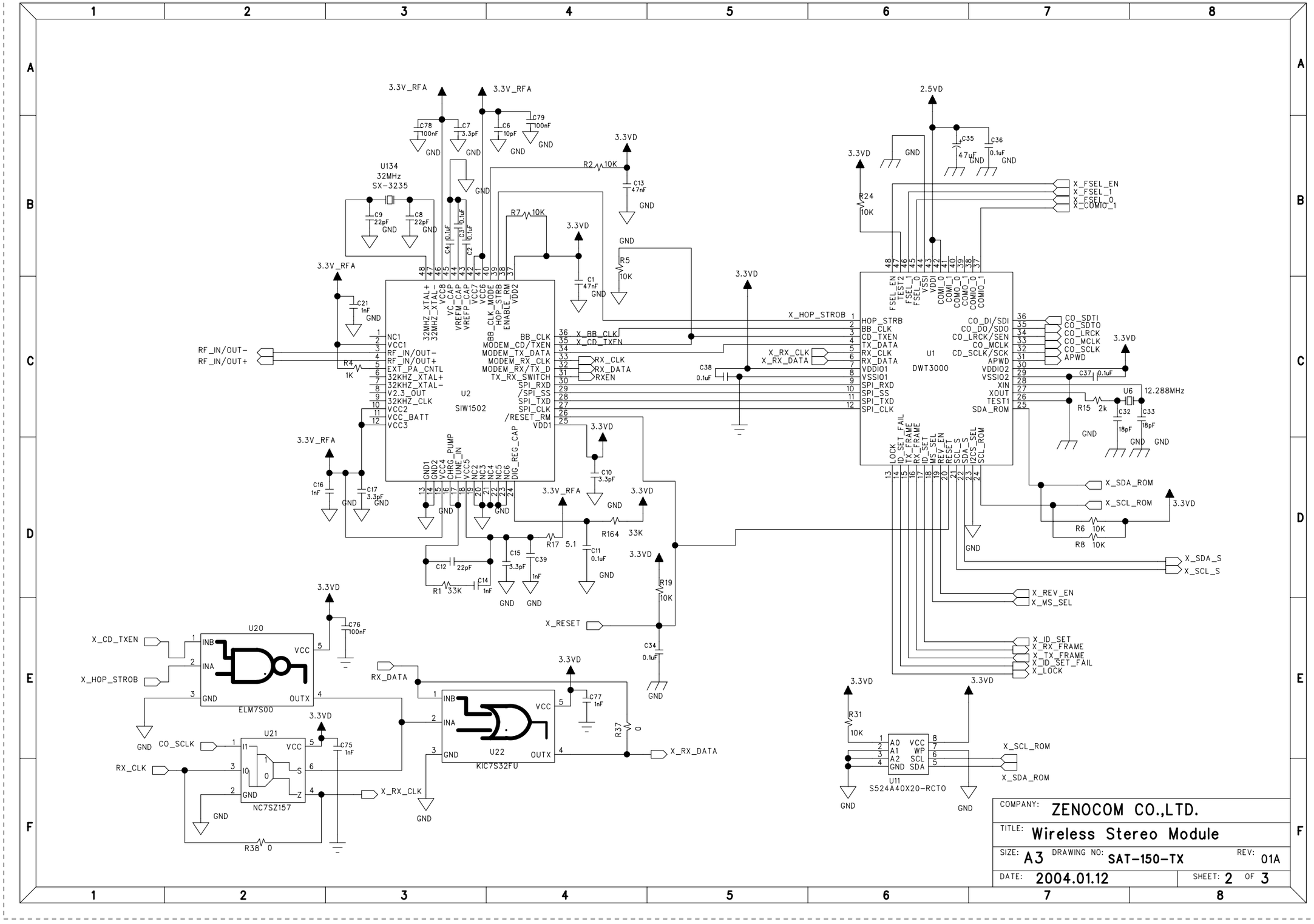
HT-DB390 FUNCTION BOARD CIRCUIT DIAGRAM

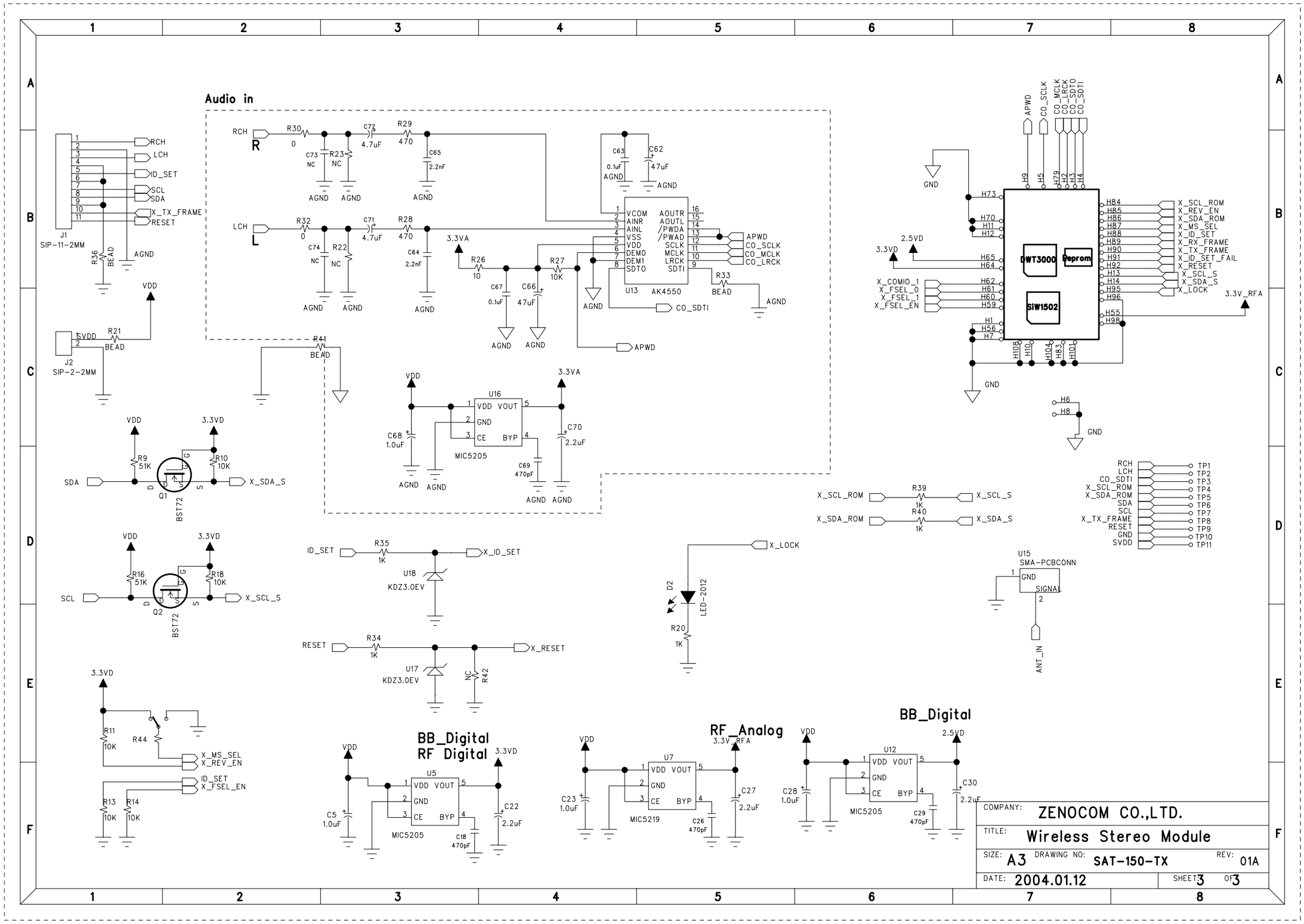


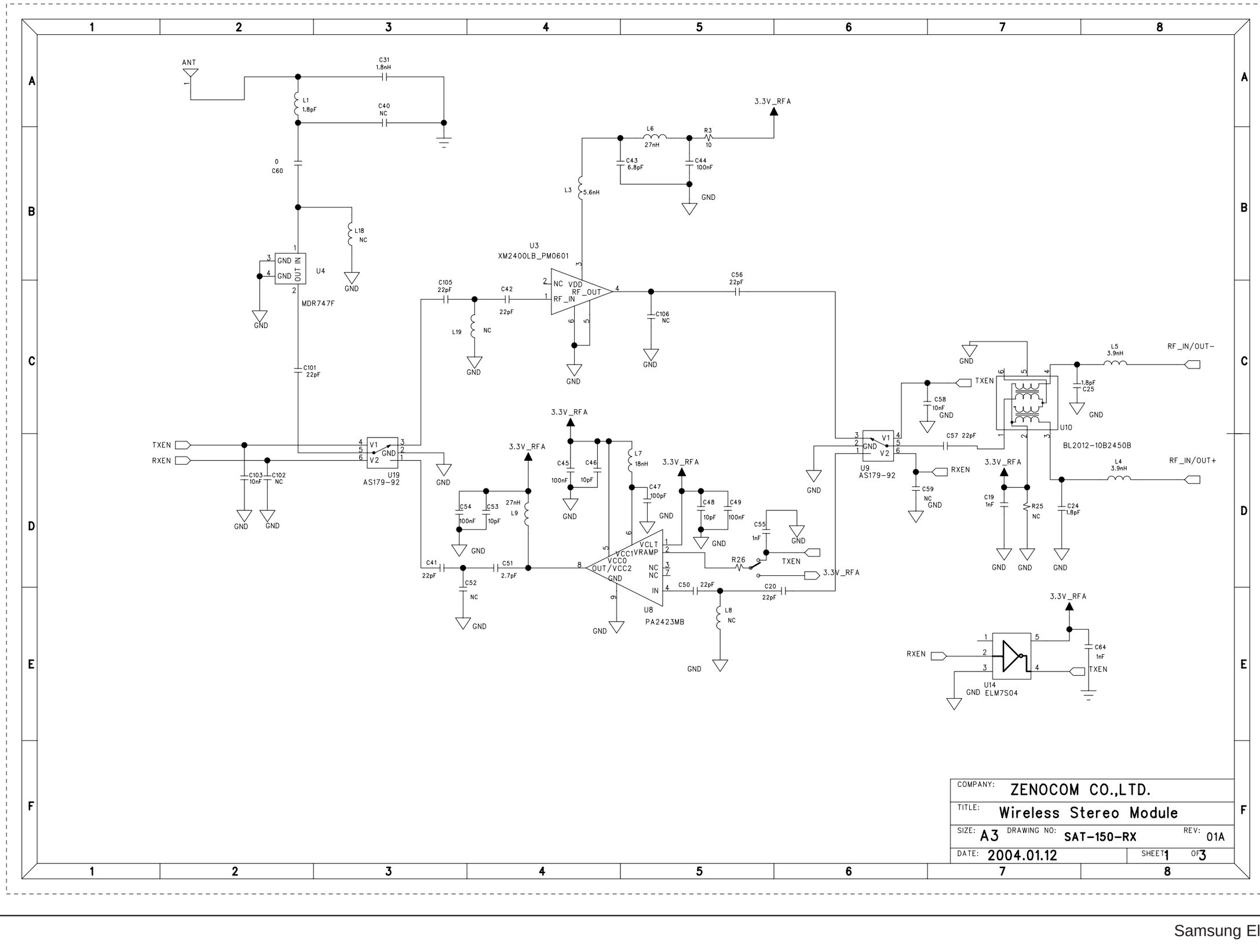

HT-DM300/350 JACK
SCART JACK
RCA JACK
HEADER20_SMD_1M/M_ST
JCN1
COMPO(OPTION)
S_C/COMP
V-GND
S_Y
Y/G
Pr/R
Pb/B
V_GND
OPT_OUT
OPT_GND
OPT_IN
OPT-GND
F_R
+5V
F_L
S_GND
AUX_L
S_GND
AUX_R
SCRT1
AR_IN
AL_IN
B_GND
BLUE_IN
G_GND
GREEN_IN
R_GND
RED_IN
V_GND
CVBS_OUT
SCART_GND
AR_OUT
AGND
AL_OUT
AV_SW
AVS
FT_USE
FGND
RGB_BL
VI_GND
CVBS_IN
VIDEO_OUT
VJK1
DIGITAL-IN
SIG
GND
+5V
COMP
RGB
VJK2
A/D-R
A/GND
A/D-R
AV_SW2
AV_SW1
V-AV SEL
SCART-MUTE
SCART-P/MUTE
TUNED
STEREO
-12V
+12V
VJK1(3P)
Y
Pb
Pr
VJK3
VIDEO_OUT
VIDEO_IN2
VIDEO_IN1
SVJ1
SUPER_VIDEO
VIC5
BA7665FS_SMD
MUTEA
INA
GND
GND
GND
N.C
INB
MUTEB
VCC1
OUT1
OUTA2
VCC2
MIXOUT1
MIXOUT2
N.C
OUTB
VIC5
BA7612AF
IN1
CTLA
CTLB
IN2
Vout
Vcc
IN3
GND
JP1
HEADER7
AUX_R
AUX_L
DOWN_L
DOWN_R
CON_A
CON_B
VW1
VW4
MDATA
MCLK
T-LATCH
T-DATA
A/D-R
A/GND
A/D-L
T-R/CH
T/GND
T-L/CH
RDS_CLK
RDS_DATA
TUNED
ST
VCC
L/OUT
GND
R/OUT
CE
DI
CLK
DO
D/GND
RDS/CLK
RDS/DA
MODEL NAME:
FILE NAME: DB300.J
DESIGNER: H.C.BAIK
DATE: 2003.02.25


R/F TUNER PACK
BCK
LRCK
GND
SDI1
nCS
GND
SCLK
SDA
GND
CCH(Remocon)
VCC
3 color RED controll
CN3
LED ON/OFF
GND
BLUE
RED
GREEN
LED CHG
VCC
PWR LED
RESET
AIC5
S3C70F4
STA-304
AIC3
125 DATA
SMPS
1) +32V(5A)/ +5V(0.5A)
POWER CONNECTION
5V GND
5V GND
POWER_DETECT
POWER_CONTROL
5V B+
32V
32V
32V_GND
32V_GND
AIC1
STA505
AIC2
STA505
IN1A
IN1B
IN2A
IN2B
IBIAS
PWRDN
FUALT
TRI-STATE
TH_WAR
CONFIG
VDD
VSS
VCCSIGN
GND-Reg
N.C.
GND-Clean
GND-SUB
L-OUT
R-OUT
ON/OFF
7833
with H/S
MODEL NAME :
DIGITAL AMP CIRCUIT
DATE : 2006.2.25 JUN-YOUNG CHANG

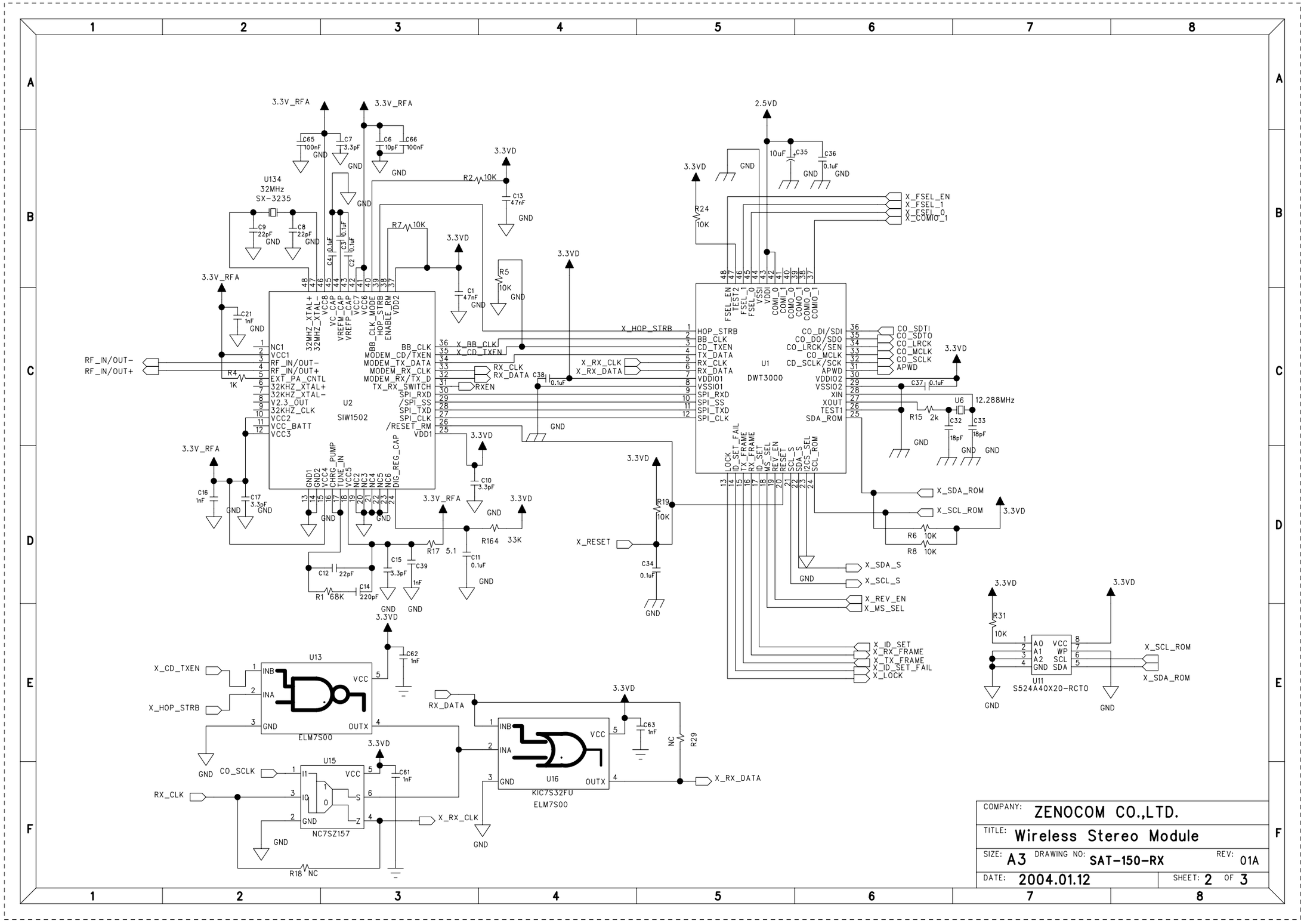

ANT_IN
C40 NC
L1 0
C60 NC
GND
0 C61
L18 NC
U4
GND OUT IN
DG41LHO
C101 22pF
3.3V_RFA
L6 27nH
R3 10
C43 6.8pF
C44 100nF
L3 5.6nH
U3
XM2400LB_PM0601
NC VDD RF_OUT RF_IN
C105 22pF
C42 22pF
L19 NC
C106 NC
C56 22pF
TXEN
RXEN
U19 AS179-92
C103 10nF
C102 NC
C45 100nF
C46 10pF
L7 18nH
C47 100pF
C54 100nF
C53 10pF
27nH L9
C41 22pF
C51 2.7pF
C52 NC
U8 PA2423MB
VCLT VRAMP VCC1 VCC0 OUT/VCC2 GND NC NC IN
C48 10pF
C49 100nF
C55 1nF
R43 22pF
C50 22pF
C20 22pF
L8 NC
L5 3.9nH
RF_IN/OUT-
C58 10nF
U10 BL2012-10B2450B
1.8pF C25
C57 22pF
U9 AS179-92
C59 NC
L4 3.9nH
RF_IN/OUT+
C19 1nF
R25 NC
C24 1.8pF
U14 ELM7S04
C31 1nF
COMPANY: ZENOCOM CO.,LTD.
TITLE: Wireless Stereo Module
SIZE: A3 DRAWING NO: SAT-150-TX REV: 01A
DATE: 2004.01.12 SHEET 1 OF 3

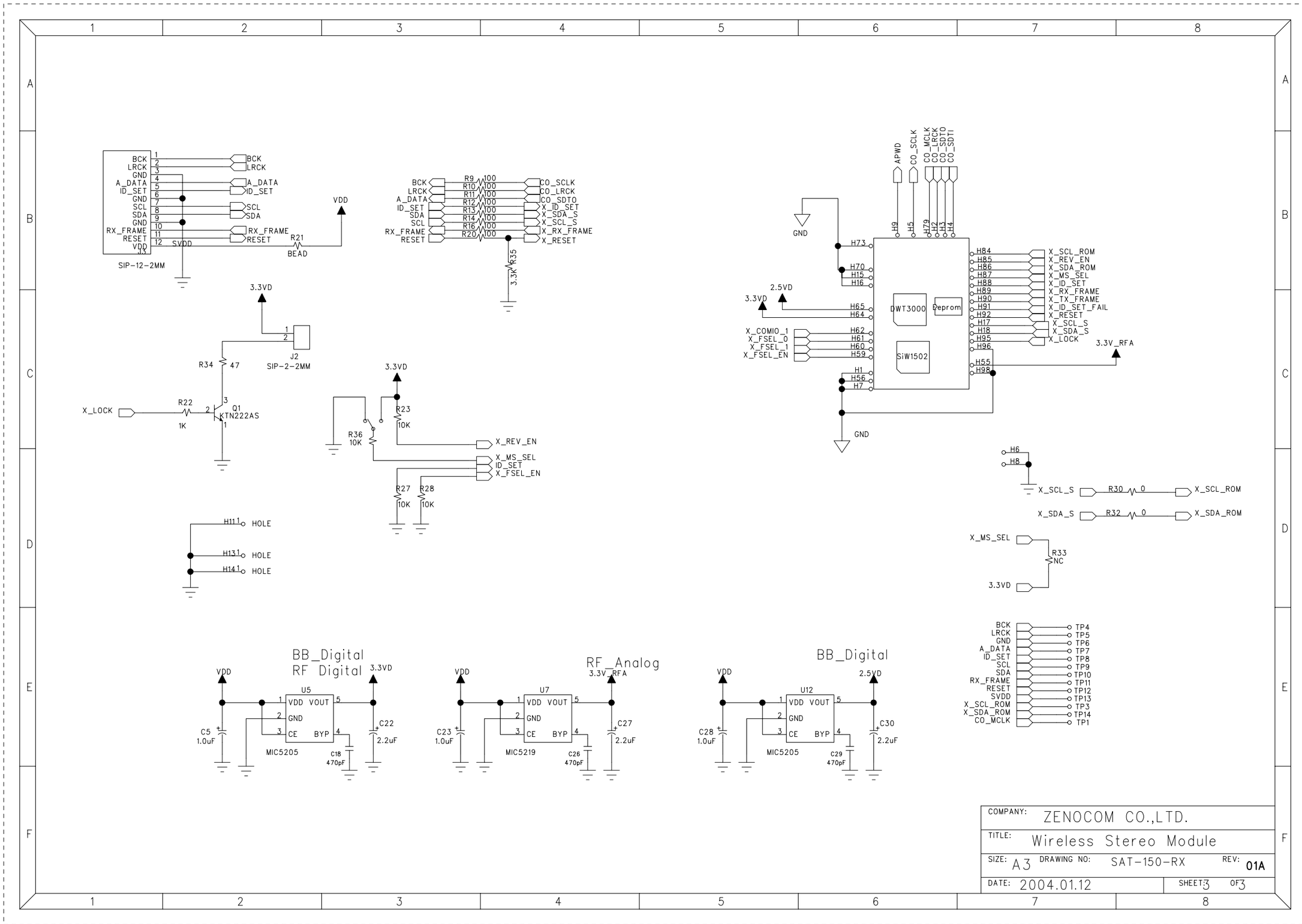

U2
SIW1502
U1
DWT3000
U6
12.288MHz
U134
32MHz
SX-3235
U20
ELM7S00
U21
NC7SZ157
U22
KIC7S32FU
U11
S524A40X20-RCTO
RF_IN/OUT-
RF_IN/OUT+
X_HOP_STROB
X_CD_TXEN
X_RX_CLK
X_RX_DATA
X_RESET
X_FSEL_EN
X_FSEL_1
X_FSEL_0
X_COMIO_1
X_SDA_ROM
X_SCL_ROM
X_SDA_S
X_SCL_S
X_REV_EN
X_MS_SEL
X_ID_SET
X_RX_FRAME
X_TX_FRAME
X_ID_SET_FAIL
X_LOCK
CO_SDTI
CO_SDTO
CO_LRCK
CO_MCLK
CO_SCLK
APWD
3.3V_RFA
3.3VD
2.5VD
GND
COMPANY: ZENOCOM CO.,LTD.
TITLE: Wireless Stereo Module
SIZE: A3
DRAWING NO: SAT-150-TX
REV: 01A
DATE: 2004.01.12
SHEET: 2 OF 3


Audio in
RCH
LCH
ID_SET
SCL
SDA
X_TX_FRAME
RESET
J1
SIP-11-2MM
R36
BEAD
AGND
VDD
SVDD
R21
BEAD
J2
SIP-2-2MM
R30
0
C72
4.7uF
R29
470
C73
NC
R23
NC
C65
2.2nF
C63
0.1uF
C62
47uF
R32
0
C71
4.7uF
R28
470
C74
NC
R22
NC
C64
2.2nF
3.3VA
R26
10
C67
0.1uF
C66
47uF
R27
10K
R33
BEAD
R41
BEAD
U13
AK4550
VCOM
AINR
AINL
VSS
VDD
DEM0
DEM1
SDTO
AOUTR
AOUTL
/PWDA
/PWAD
SCLK
MCLK
LRCK
SDTI
APWD
CO_SCLK
CO_MCLK
CO_LRCK
CO_SDTI
U16
MIC5205
VDD VOUT
GND
CE BYP
C68
1.0uF
C70
2.2uF
C69
470pF
3.3VD
R9
51K
R10
10K
Q1
BST72
X_SDA_S
R16
51K
R18
10K
Q2
X_SCL_S
R35
1K
U18
KDZ3.0EV
X_ID_SET
R34
1K
U17
KDZ3.0EV
NC
R42
X_RESET
R11
10K
R44
X_MS_SEL
X_REV_EN
ID_SET
X_FSEL_EN
R13
10K
R14
10K
X_LOCK
D2
LED-2012
R20
1K
APWD
CO_SCLK
CO_MCLK
CO_LRCK
CO_SDTI
GND
H73
H70
H11
H12
2.5VD
3.3VD
H65
H64
X_COMIO_1
X_FSEL_0
X_FSEL_1
X_FSEL_EN
H62
H61
H60
H59
H1
H56
H7
H108
H110
H104
H83
H110
DWT3000
Eeprom
SIW1502
H84
H85
H86
H87
H88
H89
H90
H91
H92
H13
H14
H95
H96
H55
H98
X_SCL_ROM
X_REV_EN
X_SDA_ROM
X_MS_SEL
X_ID_SET
X_RX_FRAME
X_TX_FRAME
X_ID_SET_FAIL
X_RESET
X_SCL_S
X_SDA_S
X_LOCK
3.3V_RFA
H6
H8
GND
X_SCL_ROM
R39
1K
X_SCL_S
X_SDA_ROM
R40
1K
X_SDA_S
RCH
LCH
CO_SDTI
X_SCL_ROM
X_SDA_ROM
SDA
SCL
X_TX_FRAME
RESET
GND
SVDD
TP1
TP2
TP3
TP4
TP5
TP6
TP7
TP8
TP9
TP10
TP11
U15
SMA-PCBCONN
GND
SIGNAL
ANT_IN
BB_Digital
RF Digital
U5
MIC5205
C5
1.0uF
C22
2.2uF
C18
470pF
RF_Analog
3.3V_RFA
U7
MIC5219
C23
1.0uF
C27
2.2uF
C26
470pF
BB_Digital
2.5VD
U12
MIC5205
C28
1.0uF
C30
2.2uF
C29
470pF
COMPANY: ZENOCOM CO.,LTD.
TITLE: Wireless Stereo Module
SIZE: A3
DRAWING NO: SAT-150-TX
REV: 01A
DATE: 2004.01.12
SHEET 3 OF 3



COMPANY:	ZENOCOM CO.,LTD.
TITLE:	Wireless Stereo Module
SIZE: A3	DRAWING NO: SAT-150-RX REV: 01A
DATE: 2004.01.12	SHEET 1 OF 3


U2
SIW1502
U1
DWT3000
U134
32MHz
SX-3235
U13
ELM7S00
U15
NC7SZ157
U16
KIC7S32FU
ELM7S00
U11
S524A40X20-RCTO
U6
12.288MHz
RF_IN/OUT-
RF_IN/OUT+
X_HOP_STRB
X_BB_CLK
X_CD_TXEN
X_RX_CLK
X_RX_DATA
X_RESET
X_FSEL_EN
X_FSEL_1
X_FSEL_0
X_COMO_1
X_SDA_ROM
X_SCL_ROM
X_SDA_S
X_SCL_S
X_REV_EN
X_MS_SEL
X_ID_SET
X_RX_FRAME
X_TX_FRAME
X_ID_SET_FAIL
X_LOCK
CO_SDTI
CO_SDTO
CO_LRCK
CO_MCLK
CO_SCLK
APWD
3.3V_RFA
3.3VD
2.5VD
GND
COMPANY: ZENOCOM CO.,LTD.
TITLE: Wireless Stereo Module
SIZE: A3
DRAWING NO: SAT-150-RX
REV: 01A
DATE: 2004.01.12
SHEET: 2 OF 3


BCK
LRCK
GND
A_DATA
ID_SET
GND
SCL
SDA
GND
RX_FRAME
RESET
VDD
J3
SIP-12-2MM
SVDD
R21
BEAD
VDD
R9 100
R10 100
R11 100
R12 100
R13 100
R14 100
R16 100
R20 100
CO_SCLK
CO_LRCK
CO_SDTO
X_ID_SET
X_SDA_S
X_SCL_S
X_RX_FRAME
X_RESET
R35
3.3K
3.3VD
J2
SIP-2-2MM
R34 47
X_LOCK
R22
1K
Q1
KTN222AS
R36
10K
R23
10K
X_REV_EN
X_MS_SEL
ID_SET
X_FSEL_EN
R27
10K
R28
10K
H11 HOLE
H13 HOLE
H14 HOLE
APWD
CO_SCLK
CO_MCLK
CO_LRCK
CO_SDTO
CO_SDTI
H9
H5
H79
H2
H3
H4
GND
H73
H70
H15
H16
H65
H64
H62
H61
H60
H59
H1
H56
H7
2.5VD
3.3VD
X_COMIO_1
X_FSEL_0
X_FSEL_1
X_FSEL_EN
DWT3000
Eeprom
SiW1502
H84
H85
H86
H87
H88
H89
H90
H91
H92
H17
H18
H95
H96
H55
H98
X_SCL_ROM
X_REV_EN
X_SDA_ROM
X_MS_SEL
X_ID_SET
X_RX_FRAME
X_TX_FRAME
X_ID_SET_FAIL
X_RESET
X_SCL_S
X_SDA_S
X_LOCK
3.3V_RFA
GND
H6
H8
X_SCL_S
R30 0
X_SCL_ROM
X_SDA_S
R32 0
X_SDA_ROM
X_MS_SEL
R33
NC
3.3VD
BCK
LRCK
GND
A_DATA
ID_SET
SCL
SDA
RX_FRAME
RESET
SVDD
X_SCL_ROM
X_SDA_ROM
CO_MCLK
TP4
TP5
TP6
TP7
TP8
TP9
TP10
TP11
TP12
TP13
TP3
TP14
TP1
BB_Digital
RF Digital
U5
VDD VOUT
GND
CE BYP
MIC5205
C5
1.0uF
C18
470pF
C22
2.2uF
RF_Analog
3.3V_RFA
U7
MIC5219
C23
1.0uF
C26
470pF
C27
2.2uF
BB_Digital
U12
MIC5205
C28
1.0uF
C29
470pF
C30
2.2uF
COMPANY: ZENOCOM CO.,LTD.
TITLE: Wireless Stereo Module
SIZE: A3
DRAWING NO: SAT-150-RX
REV: 01A
DATE: 2004.01.12
SHEET 3 OF 3

SWA1000A Sub PCB

W1

BLUE	1
WHITE	2

WC1 100p

LED1 BLUE

W2

RED	1
WHITE	2

WC2 100p

LED2 LED

W3

	1
	2

SW1

CN6

	1
	2

SW4

W5

VCC	1
LED CHG	2
GREEN	3
RED	4
BLUE	5
GND	6
LED ON/OFF	7

SW3, SW2

WR13 100, WR14 100, WR15 100, WR16 4.7k, WR17 4.7k

AQ4 C945

AQ5 C945

AQ6 C945

W4

GREEN	1
BLUE	2
VCC	3
RED	4

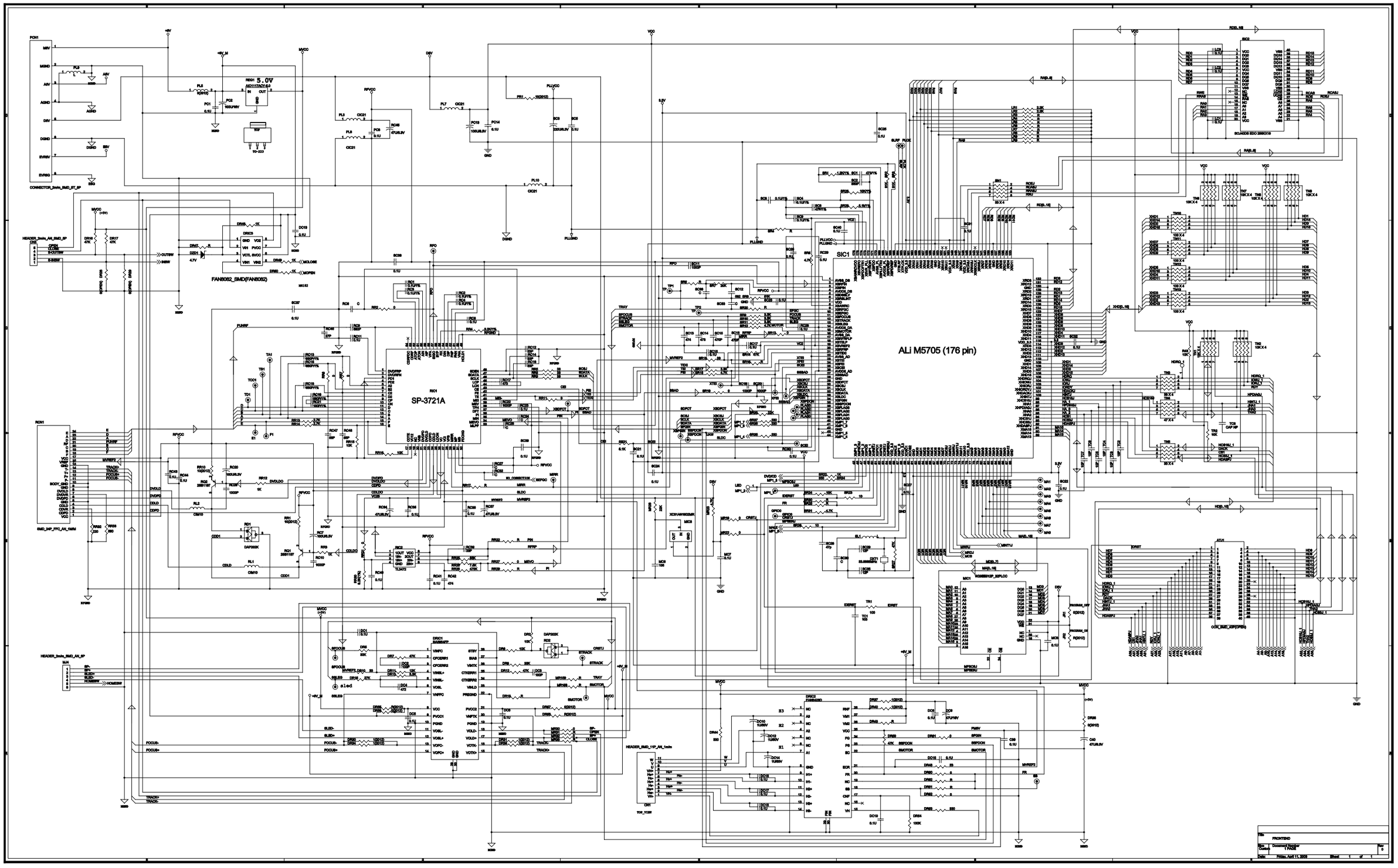
WR10 100, WR11 100, WR12 100

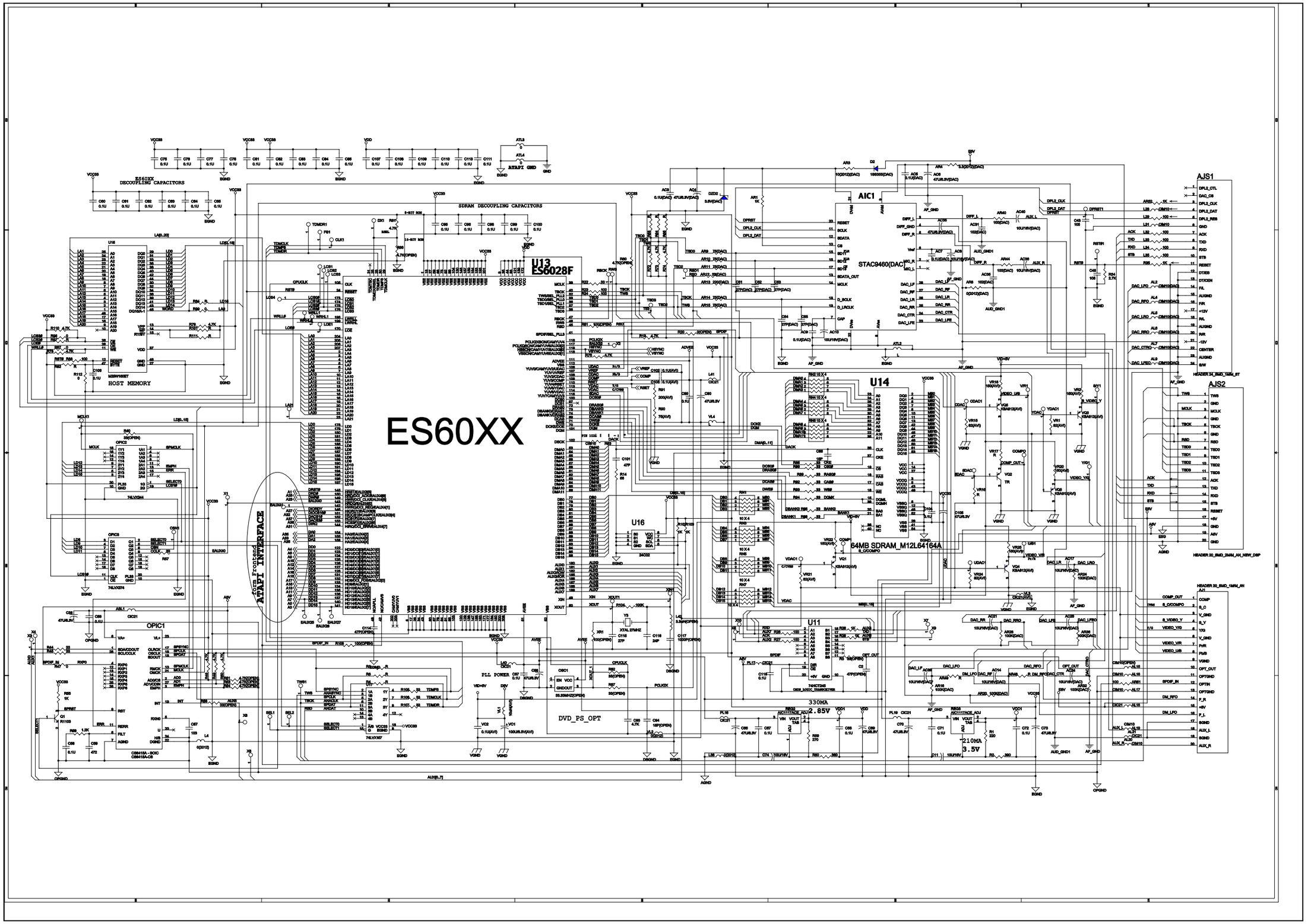
RED	VCC	BLUE	GREEN
4	3	2	1

@efer

LED4, LED3

MODEL NAME :	SWA1000A
FILE NAME :	SWA1000A_SUB_PCB
DESIGNER :	E.S.YOON
DATE :	2003.10.17


ALi M5705 (176 pin)
SP-3721A
SIC1
RIC1
FAN8082_SMD(FAN8082)
CONNECTOR_3mm_SMD_ST_SP
HEADER_2mm_AH_SMD_SP
HEADER_SMD_10P_AH_1mm
SMD_24P_FFC_AH_1MM
FRONTEND


ES60XX
DECOUPLING CAPACITORS
SDRAM DECOUPLING CAPACITORS
U13
ES6028F
U14
U16
U11
AIC1
STAC9460(DAC)
AJS1
AJS2
HOST MEMORY
64MB SDRAM_M12L64164A
OPIC1
DVD_PS_OPT
PLL POWER
330MA
2.85V
210MA
3.5V
ATAPI INTERFACE
From Frontend